

PERSONAL HAND HELD CALORIE COMPUTER

Abstract of the Disclosure

A novel hand held individually customized interactive integrated circuit device for nutrition and exercise management. Featuring built in Random Access Memory (RAM) Storage of extensive food lists with associated caloric and fat contents. The device also incorporates RAM storage of exercises with associated activity caloric values or rates. The basic unit utilizes the individual's personal characteristics such as sex, age, weight, height, frame size, life style and goals with programmed calculations to derive optimum suggested weight, metabolic rate, daily caloric/fat intake targets, exercise targets and exercise/daily calorie burning rates. The personalized hand held calorie computer tracks daily and historical individual caloric input/output, fat input, and weight which can be viewed in the form of charts and graphs. Alarms are provided in a variety of tones, sounds, and tunes which alert the individual to breach of prescribed optimum daily caloric/fat intake or signal special events such as times for medication, special eating intervals, and appointments. Additionally, it can be used with optional wireless activity sensing and odometer attachments already available in the market to automatically track/deduct burned calories from total daily caloric intake when walking, running, riding a bicycle, or performing other activities. The device is intended for use by individuals interested in increasing, decreasing or maintaining their body weight for personal or medical reasons. Optional medical programs take into consideration special dieting, medication and exercise requirements of patients with diabetes, high cholesterol, heart ailments, hypoglycemia and other diseases. Confidentiality is assured by use of a Personal Identification Number (PIN) which is selected and changed at will by the individual user. The device will be available in various languages. Other functions include a four function calculator and a clock/calendar.

[54] PERSONALIZED HAND HELD CALORIE COMPUTER (ECC)

[76] Inventors: H. Benjamin Diaz; M. Inez Genera, both of P. O. Box 294, Brea, Calif. 92622

[21] Appl. No.: 610,380

[22] Filed: Mar. 4, 1996

[51] Int. Cl. 6 G06F 17/00

[52] U.S. Cl. 705/2; 128/921; 364/400; 364/700

[58] Field of Search 128/921; 364/400, 364/700, 709.03, 709.12; 705/2

[56] References Cited

U.S. PATENT DOCUMENTS

4,100,401	7/1978	Tuit et al.	235/92 T
4,159,416	6/1979	Brejnik et al.	235/92 MT
4,192,000	3/1980	Lipsey	364/415
4,244,020	1/1981	Ratcliff	364/413
4,321,674	3/1982	Krames et al.	364/413
4,380,802	4/1983	Segar et al.	364/900
4,575,804	3/1986	Ratcliff	364/715
4,686,624	8/1987	Blum et al.	364/415
4,796,182	1/1989	Duboff	364/413.29
4,894,793	1/1990	Ikemoto et al.	364/709.03
5,233,520	8/1993	Kretsch et al.	364/413.29
5,412,564	5/1995	Eccr	600/300
5,704,350	11/1998	Williams, III	600/300

Primary Examiner—Edward R. Cosimano

[57] ABSTRACT

A novel hand held individually customized interactive integrated circuit device for nutrition and exercise management. Featuring built in Random Access Memory (RAM) Storage of extensive food lists with associated caloric and fat contents. The device also incorporates RAM storage of exercises with associated activity caloric values or rates. The basic unit utilizes the individual's personal characteristics such as sex, age, weight, height, frame size, life style and goals with programmed calculations to derive optimum suggested weight, metabolic rate, daily caloric/fat intake targets, exercise targets and exercise/daily calorie burning rates. The personalized hand held caloric computer tracks daily and historical individual caloric input/output, fat input, and weight which can be viewed in the form of charts and graphs. Alarms are provided in a variety of tones, sounds, and tunes which alert the individual to breach of prescribed optimum daily caloric/fat intake or signal special events such as times for medication, special eating intervals, and appointments. Additionally, it can be used with optional wireless activity sensing and odometer attachments already available in the market to automatically track/deduct burned calories from total daily caloric intake when walking, running, riding a bicycle, or performing other activities. The device is intended for use by individuals interested in increasing, decreasing or maintaining their body weight for personal or medical reasons. Optional medical programs take into consideration special dieting, medication and exercise requirements of patients with diabetes, high cholesterol, heart ailments, hypoglycemia and other diseases. Confidentiality is assured by use of a Personal Identification Number (PIN) which is selected and changed at will by the individual user. The device will be available in various languages. Other functions include a four function calculator and a clock/calendar.

15 Claims, 17 Drawing Sheets

